HAZARDOUS LOCATIONS
EXPLOSION PROTECTION SERVICES
Global certification is necessary to compete in today’s modern world

The hazardous locations industry is challenged to design and produce safe, reliable, energy efficient and innovative products to be installed in potentially explosive atmospheres for the oil & gas, petrochemical, pharmaceutical, food, mining and transportation industries. In this competitive market, global expansion complicates this daunting task by requiring manufacturers to not only identify and understand global certification requirements but also to apply them to their innovations. To compete in today’s modern world, manufacturers need to innovate safely, mitigate risks and access global markets. UL can help in this journey as a leader in global hazardous locations and explosion protection certification, testing, inspection, and research.

For example, some regions of the world may require a local certification mark while other parts of the world may use harmonized certification systems such as the ATEX Directive and IECEx Systems. UL’s specialty is to provide global certification solutions with a roadmap for market acceptance in each region of the world. Our industry leadership and technical expertise translates into actionable business efficiencies for our customers. As your partner, we can provide a single source solution for combined product evaluation, testing and production audits, which minimizes compliance and regulatory delays while keeping the essential wheels of your business turning.

UL conducts research, testing, certification, validation, audits and training

HAZLOC SUPPLY CHAIN

MATERIALS

COMPONENTS

END PRODUCTS

SKIDS / ASSEMBLIES

END INSTALLATION

AHJ Inspection and Quality Audits

OIL & GAS

Safety technology for the entire oil gas value chain including distribution

CHEMICALS

Safety technology for the chemical industry

PHARMA

Safety technology for the pharmaceutical industry

FOOD

Measurement and data acquisition systems within the food industry

MINING

Safety technology for underground mining

ENERGY

Safety technology for power plants/ renewable energy

TRANSPORT

Safety technology for airplanes and ships
Certifications for Global Market Access

Leverage UL's relationships and brand recognition with local certification staff to help understand local regulations and obtain local certification marks using your UL, C-UL, INMETRO, ATEX, or IECEx certifications. UL has a memorandum of understanding or letter of intent with many local organizations to ease your market access. If your business takes you to other regions of the world, UL can also help.

UL is one of the top issuers of global ATEX and IECEx certifications. This supports acceptance of your UL issued certificates, test reports and quality audits for local country marks around the globe. The UL brand is highly recognized and accepted by certifiers, installers and regulators in local, regional or international markets.
**EXPLOSION PROTECTION GLOBAL CERTIFICATION**

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<tr>
<td>International</td>
<td></td>
<td>The UL Mark is recognized and accepted in countries around the world as confirmation of third party certification to explosion protection and safe area requirements. Safe area requirements include the risks from fire, electric shock and personal injury hazards.</td>
<td>1, 2</td>
<td>C C M TO</td>
</tr>
<tr>
<td>United States</td>
<td></td>
<td>The UL Mark is recognized and accepted in the USA. The Certification Mark is based on OSHA and ANSI accreditation.</td>
<td>1, 2</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Canada</td>
<td></td>
<td>The C-UL Mark is recognized and accepted in Canada. Certification Mark is based on the US and Canadian Standards.</td>
<td>1, 2</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Gulf of Mexico</td>
<td></td>
<td>This region of the world accepts UL division/zone based and IECEx certification. Certification is mandated by CFR and API installation documents and regulated by BSEE and USCG.</td>
<td>1, 2</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Brazil</td>
<td></td>
<td>The INMETRO Ordinance 179:2010 sets the rules for electrical and electronics equipment to be used in hazardous locations. To sell products in Brazil, manufacturers need to apply for this certification.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Mexico</td>
<td></td>
<td>Division based certifications are widely accepted.</td>
<td>1, 2</td>
<td>C C M TO</td>
</tr>
<tr>
<td>EU/EFTA</td>
<td></td>
<td>The ATEX Directive ensures the free movement of goods throughout the EU and EFTA by harmonizing compliance procedures for explosion protected equipment. The European Union must comply with the ATEX Directive, European Directive 2014/34/EU.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>North Sea</td>
<td></td>
<td>The ATEX Directive ensures the free movement of goods throughout the European Union by harmonizing compliance procedures for explosion protected equipment. The European Union must comply with the ATEX Directive, European Directive 2014/34/EU.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Eurasian Economic Union</td>
<td></td>
<td>The EAC Mark is a product marking to indicate that explosion protected products conform to all technical regulations of the Eurasian Economic Union assessment procedures, including TR CU 012/2011.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>South Africa</td>
<td>SANS</td>
<td>An IECEx Certificate may be used to obtain local SABS or MASC certification.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>SASO</td>
<td>A Certificate of Conformity (CoC) issued by a SASO-authorized certification body, such as UL, provides entrance into Saudi Arabia based on IECEx Certificate.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>China</td>
<td>CNEx</td>
<td>CNEx certification is required in order to gain access for HazLoc products to the People’s Republic of China. ATEX and IECEx certificates and associated test reports can be used to obtain a CNEx certification.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Korea</td>
<td>KS</td>
<td>KS mark indicates conformity with applicable Korean Industrial Standards (KIS), and is granted by the certification body, the Korean Standards Association (KSA).</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Safety Label</td>
<td>The Safety Label for Ex equipment in Taiwan indicates conformity to Taiwan national standards (CNS) and completion of official registration scheme by Ministry of Labor, Taiwan Government. It is currently the mandatory requirement that all Ex equipment is required to acquire a Safety Label prior to importation, sales, distribution, installation or operation in Taiwan.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
<tr>
<td>Australia/ New Zealand</td>
<td>IECEx</td>
<td>IECEx certification may be used as a basis for local certification.</td>
<td>3</td>
<td>C C M TO</td>
</tr>
</tbody>
</table>

**Installation Principles & Surveillance:**

1 – Division Based Certification/Production Inspections

2 – Zone Based Certification/Production Inspections

3 – Zone Based Certification/Quality Assessment

Information may be subject to change due to evolving regulations.
UL SERVICE OFFERINGS FOR GLOBAL MARKET ACCESS

UL helps simplify entry into global markets by bundling product testing and certification to meet the requirements of a diverse market’s standards and regulations. Regardless of your location, UL can provide a single streamlined process that reduces administrative and project management costs, accelerating your global market access.

A QUALITY SYSTEM AUDITS

Combine IECEx, ATEX, INMETRO audits and EAC surveillance audits to save time and money with one audit.

- IECEx System
- ATEX Directive (2014/34/EU)
- INMETRO

M MOTORS

Comply with today’s rotating machinery requirements for a comprehensive global market access solution.

- Global Safety Certification
- Global Explosive Atmosphere Certification
- SASO Certification
- Global Energy Efficiency Certification & Assistance Submitting to the US Department of Energy (DOE)
- Notified Certification Body (NCB) for Global Motor Energy Efficiency
- IEC 60034-1 Rotating Machinery
- Marine Assistance
- Motor Drive Certification
- Rebuilder Programs

C HAZARDOUS LOCATION (EXPLOSION PROTECTION) CERTIFICATION & TESTING

Help ensure global market access with the trusted and recognized UL brand.

- UL, C-UL*
- IECEx
- ATEX
- INMETRO

- Functional Safety
- Non-Electrical
- SASO Certificates
- MSHA Assistance

* Supported by production inspections 4 times per year.

T TRAINING & EDUCATION

Leverage our expertise to support your technical needs.

- IECEx Personnel Competence
- IECEx Recognized Training Provider (ODS21)
- Public Workshops
- Private Workshops
- Online Modules

O ORDINARY LOCATIONS/SAFE AREA SERVICES

Ordinary locations services may vary depending on the type of equipment or in-country requirements and are required in addition to hazardous location requirements. For example, industrial control equipment may need compliance with ordinary location requirements in accordance with the harmonized 61010 series of standards.

- Type Examination Certificates
- SASO Certificates
- Wireless
- EMC
- UL-EU
- Energy Efficiency
- CE Assistance
To facilitate a common understanding of global hazardous locations (explosive atmospheres) for industry stakeholders, UL's mobile app benefits designers, manufacturers, distributors, inspection & regulatory authorities (AHJs), and end-users across oil & gas, chemical, agricultural, pharmaceuticals, offshore, and mining industries. This one comprehensive source for installation principles is available in: English, Simplified Chinese, Traditional Chinese, German, Brazilian Portuguese and Spanish.

**HazLoc App**

To facilitate a common understanding of global hazardous locations (explosive atmospheres) for industry stakeholders, UL's mobile app benefits designers, manufacturers, distributors, inspection & regulatory authorities (AHJs), and end-users across oil & gas, chemical, agricultural, pharmaceuticals, offshore, and mining industries. This one comprehensive source for installation principles is available in: English, Simplified Chinese, Traditional Chinese, German, Brazilian Portuguese and Spanish.

**Installation Principles for Explosive Atmospheres:**
- Types of explosive atmospheres
- Likelihood explosive atmosphere is present
- Ignition-related properties
- Temperature classifications
- Methods of explosion protection
- Markings required
- National, regional and international standards
- Ingress protection (IP) codes and Type ratings

**UL.com/HazLocApp**

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Why UL for Hazardous Locations?

UL drives global research and standards to continually advance and meet ever-evolving product safety, performance and interoperability needs. UL’s global network of technical experts and state-of-the-art facilities, along with our longstanding relationships with regulatory authorities, partner laboratories and industry technical leaders, helps manufacturers gain the compliance credentials they need to compete in a more complex global supply chain. Leverage our global brand acceptance and trust to add value to your innovations.
Single Source Provider — UL’s global family of certification staff around the globe can help save you time and money with a single, local point of contact for your global certification needs.

Knowledge & Speed — We have technical expertise versed in all protection methods with comprehensive industry knowledge that translates into actionable business efficiencies for our customers to speed time to market. Engineers perform Quality Audits bringing a higher level of technical competency to the audits. With a U.S. based Certification Officer (CO) on staff, certification time is reduced.

Global Market Access — Leverage UL’s active participation and leadership in the global standards writing process. You can benefit with faster time to a global marketplace with the UL certification process, not only do we understand the requirements - we helped develop them. In fact, we participate in over 50 Standards writing committees, such as: TC31 (IECEx), STP (North America), NFPA, API and BSEE and CFR committees.

UL works globally with stakeholders to empower trust and help navigate market complexity, driving innovation through science, today and tomorrow.
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